

SAP702PCT. ST25
SEQUENCE LISTING

<110> SUMITOMO CORPORATION
Irimura, Tatsuro

<120> Use of Lectin Library for glycoprotein and cell identification, serum and cell diagnosis, and glycoprotein and cell fractionization

<130> SAP-702-PCT

<150> JP2002-239979

<151> 2002-08-20

<160> 31

<170> PatentIn version 3.1

<210> 1

<211> 950

<212> DNA

<213> Maackia amurensis

<220>

<221> CDS

<222> (4).. (858)

<223>

<400> 1

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1					5					10				15		
ttc	tta	act	ttc	ttc	ott	ttg	cta	ctc	aac	aac	gta	aac	tca	tca	gat	96
Phe	Leu	Thr	Phe	Phe	Leu	Leu	Leu	Leu	Asn	Asn	Val	Asn	Ser	Ser	Asp	
				20					25					30		
gag	ctt	tct	ttt	acc	atc	aac	aat	ttc	atg	cca	aat	caa	ggc	gat	cta	144
Glu	Leu	Ser	Phe	Thr	Ile	Asn	Asn	Phe	Met	Pro	Asn	Gln	Gly	Asp	Leu	
			35					40					45			
ctc	ttc	caa	ggt	gta	gcc	act	gtt	tca	cca	aca	ggg	gta	tta	caa	ctt	192
Leu	Phe	Gln	Gly	Val	Ala	Thr	Val	Ser	Pro	Thr	Gly	Val	Leu	Gln	Leu	
		50					55					60				
acc	agc	gaa	gaa	aac	ggt	caa	ccc	ctg	gag	tat	tct	gtt	ggc	aga	gct	240
Thr	Ser	Glu	Glu	Asn	Gly	Gln	Pro	Leu	Glu	Tyr	Ser	Val	Gly	Arg	Ala	
	65					70					75					
cta	tat	act	gcc	cct	gtg	cgc	att	tgg	gac	agt	acc	act	ggc	gcc	gta	288
Leu	Tyr	Thr	Ala	Pro	Val	Arg	Ile	Trp	Asp	Ser	Thr	Thr	Gly	Ala	Val	
80					85				90						95	
gca	agc	ttc	tcc	act	tcc	ttc	acc	ttt	gtt	gtg	aaa	gca	gct	agg	gga	336
Ala	Ser	Phe	Ser	Thr	Ser	Phe	Thr	Phe	Val	Val	Lys	Ala	Ala	Arg	Gly	
				100					105					110		

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gct tct gac ggt tta gcc ttc ttt ctt gca cca cct gat tct cag atc Ala Ser Asp Gly Leu Ala Phe Phe Leu Ala Pro Pro Asp Ser Gln Ile 115 125	384
cct tcg ggc agc gta tcg aaa tac cta gga ctt ttt aac aac tca aat Pro Ser Gly Ser Val Ser Lys Tyr Leu Gly Leu Phe Asn Asn Ser Asn 130 135 140	432
tcc gat agt tcc aac caa att gtt gct gta gag ttt gac act tac ttc Ser Asp Ser Ser Asn Gln Ile Val Ala Val Glu Phe Asp Thr Tyr Phe 145 150 155	480
ggc cat agt tat gat ccc tgg gat cca aat tat cga cat atc gga att Gly His Ser Tyr Asp Pro Trp Asp Pro Asn Tyr Arg His Ile Gly Ile 160 165 170 175	528
gat gtc aac ggt att gag tcg ata aaa act gtg caa tgg gat tgg att Asp Val Asn Gly Ile Glu Ser Ile Lys Thr Val Gln Trp Asp Trp Ile 180 185 190	576
aac ggc gga gtt gcc ttt gct acc ata acc tat cta gct ccc aac aaa Asn Gly Gly Val Ala Phe Ala Thr Ile Thr Tyr Leu Ala Pro Asn Lys 195 200 205	624
acg tta ata gca tct cta gtt tac cct tcc aat caa aca agt ttc att Thr Leu Ile Ala Ser Leu Val Tyr Pro Ser Asn Gln Thr Ser Phe Ile 210 215 220	672
gtc gct gct tct gtt gat ttg aag gga atc ctc cct gag tgg gtt aga Val Ala Ala Ser Val Asp Leu Lys Gly Ile Leu Pro Glu Trp Val Arg 225 230 235	720
gtt ggt ttc tct gct gcc acg ggt gct cct aaa gca gtt gaa acc cac Val Gly Phe Ser Ala Ala Thr Gly Ala Pro Lys Ala Val Glu Thr His 240 245 250 255	768
gat gtt cgt tcc tgg tct ttc acg tca act ttg gaa gcc aac agc cct Asp Val Arg Ser Trp Ser Phe Thr Ser Thr Leu Glu Ala Asn Ser Pro 260 265 270	816
gct gat gtg gat aat aat gtg cat atc gca cgt tac act gca Ala Asp Val Asp Asn Asn Val His Ile Ala Arg Tyr Thr Ala 275 280 285	858
tgatctcgtg agctttcgtg tgtattaggt gtttatgtaa attaaataaa aatgacctga	918
aataatgggt atcggcgcag ctatacaaaa at	950

<210> 2
 <211> 285
 <212> PRT
 <213> Maackia amurensis
 <400> 2

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Met Ala Thr Ser Asn Ser Lys Pro Thr Gln Val Leu Leu Ala Thr Phe
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Leu Thr Phe Phe Leu Leu Leu Leu Asn Asn Val Asn Ser Ser Asp Glu
20 25 30

Leu Ser Phe Thr Ile Asn Asn Phe Met Pro Asn Gln Gly Asp Leu Leu
35 40 45

Phe Gln Gly Val Ala Thr Val Ser Pro Thr Gly Val Leu Gln Leu Thr
50 55 60

Ser Glu Glu Asn Gly Gln Pro Leu Glu Tyr Ser Val Gly Arg Ala Leu
65 70 75 80

Tyr Thr Ala Pro Val Arg Ile Trp Asp Ser Thr Thr Gly Ala Val Ala
85 90 95

Ser Phe Ser Thr Ser Phe Thr Phe Val Val Lys Ala Ala Arg Gly Ala
100 105 110

Ser Asp Gly Leu Ala Phe Phe Leu Ala Pro Pro Asp Ser Gln Ile Pro
115 120 125

Ser Gly Ser Val Ser Lys Tyr Leu Gly Leu Phe Asn Asn Ser Asn Ser
130 135 140

Asp Ser Ser Asn Gln Ile Val Ala Val Glu Phe Asp Thr Tyr Phe Gly
145 150 155 160

His Ser Tyr Asp Pro Trp Asp Pro Asn Tyr Arg His Ile Gly Ile Asp
165 170 175

Val Asn Gly Ile Glu Ser Ile Lys Thr Val Gln Trp Asp Trp Ile Asn
180 185 190

Gly Gly Val Ala Phe Ala Thr Ile Thr Tyr Leu Ala Pro Asn Lys Thr
195 200 205

Leu Ile Ala Ser Leu Val Tyr Pro Ser Asn Gln Thr Ser Phe Ile Val
210 215 220

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Ala Ala Ser Val Asp Leu Lys Gly Ile Leu Pro Glu Trp Val Arg Val
225 230 235 240

Gly Phe Ser Ala Ala Thr Gly Ala Pro Lys Ala Val Glu Thr His Asp
245 250 255

Val Arg Ser Trp Ser Phe Thr Ser Thr Leu Glu Ala Asn Ser Pro Ala
260 265 270

Asp Val Asp Asn Asn Val His Ile Ala Arg Tyr Thr Ala
275 280 285

<210> 3
<211> 32
<212> DNA
<213> Artificial

<220>
<223> Tag Primer pFLAG-Spe I-sense

<400> 3
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<210> 4
<211> 32
<212> DNA
<213> Artificial

<220>
<223> Tag Primer pFLAG-Spe I-anti

<400> 4
gagctcatct atctactagt gcaggtaccc gg 32

<210> 5
<211> 26
<212> DNA
<213> Artificial

<220>
<223> pFLAG-XhoI

<400> 5
ccaggtgaaa ctgctcgagt cagatg 26

<210> 6
<211> 28
<212> DNA
<213> Artificial

<220>

<223> Primer MAH-Spe I-anti

<400> 6

tgggcaacta gttgcagtgt aacgtgcg

28

<210> 7

<211> 26

<212> DNA

<213> Artificial

<220>

<223> Analyzing Primer N-26

<400> 7

catcataacg gttctggcaa atattc

26

<210> 8

<211> 24

<212> DNA

<213> Artificial

<220>

<223> Sequence Primer Loop D-Seq

<400> 8

gttaatagca totctagttt accc

24

<210> 9

<211> 59

<212> DNA

<213> Artificial

<220>

<223> Inert Primer LLD3

<220>

<221> misc_feature

<222> (34).. (35)

<223> n is a or c or g or t or u.

<220>

<221> misc_feature

<222> (33).. (33)

<223> m is a or c.

<400> 9

ctacaagatc taacatcgtg gggttcaact gcmnnttttag gagcaccogt ggcagcaga

59

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<210> 10
 <211> 59
 <212> DNA
 <213> Artificial

<220>
 <223> Insert Primer LLD4

<220>
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 <222> (37).. (38)
 <223> n is a or c or g or t or u.

<220>
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 <222> (36).. (36)
 <223> m is a or c.

<400> 10
 ctacaagatc taacatcgtg ggtttcaact gctttmnnag gagcaccogt ggcagcaga 59

<210> 11
 <211> 59
 <212> DNA
 <213> Artificial

<220>
 <223> Insert Primer LLD5

<220>
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 <222> (40).. (41)
 <223> n is a or c or g or t or u.

<220>
 <221> misc_feature
 <222> (39).. (39)
 <223> m is a or c.

<400> 11
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<210> 12
 <211> 59
 <212> DNA
 <213> Artificial

<220>
 <223> Insert Primer LLD6

SAP702PCT. ST25

<220>
 <221> misc_feature
 <222> (43).. (44)
 <223> n is a or c or g or t or u.

<220>
 <221> misc_feature
 <222> (42).. (42)
 <223> m is a or c.

<400> 12
 ctacaagatc taacatcgtg ggtttcaact gctttaggag cmnnaccgt ggcagcaga 59

<210> 13
 <211> 59
 <212> DNA
 <213> Artificial

<220>
 <223> Insert Primer MAH loop D-1 Phe

<400> 13
 ctacaagatc taacatcgtg ggtttcaaaa actgotttag gagcaccgt ggcagcaga 59

<210> 14
 <211> 59
 <212> DNA
 <213> Artificial

<220>
 <223> Insert Primer MAH loop D-2 Asp

<400> 14
 ctacaagatc taacatcgtg ggtttcaaca tctgotttag gagcaccgt ggcagcaga 59

<210> 15
 <211> 59
 <212> DNA
 <213> Artificial

<220>
 <223> Insert Primer MAH loop D-3 Cys

<400> 15
 ctacaagatc taacatcgtg ggtttcaact gcacatttag gagcaccgt ggcagcaga 59

<210> 16
 <211> 59
 <212> DNA
 <213> Artificial

<220>

<223> Insert Primer MAH loop D-4 Asp

<400> 16

ctacaagatc taacatcgtg ggtttcaact gctttatcag gagcaccogt ggcagcaga 59

<210> 17

<211> 59

<212> DNA

<213> Artificial

<220>

<223> Insert Primer MAH loop D-6 Phe

<400> 17

ctacaagatc taacatcgtg ggtttcaact gctttaggag caaaaccogt ggcagcaga 59

<210> 18

<211> 40

<212> DNA

<213> Artificial

<220>

<223> Primer EcoRI-S

<400> 18

ccgatagttc caaccaaatt gttgctgtag aattcgacac 40

<210> 19

<211> 21

<212> DNA

<213> Artificial

<220>

<223> BamHI reverse primer

<400> 19

cacaaacgaa tggggatcca c 21

<210> 20

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<212> DNA

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<220>

<223> N-Flag-XhoI primer

<400> 20

ccaggtgaaa ctgctogagt cagatg 26

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<210> 21
 <211> 23
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<220>
 <223> Antisense primer Flag-Sal I for PCR

<400> 21
 gtggtgact gcagtgtaac gtg

23

<210> 22
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 <212> PRT
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<220>
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<400> 22

Asp	Thr	Tyr	Phe	Gly	His	Gly	Tyr	Asp	Pro	Trp
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<210> 23
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 <212> PRT
 <213> Artificial

<220>
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<400> 23

Asp	Thr	Tyr	Phe	Arg	His	Asn	Tyr	Asp	Pro	Trp
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<210> 24
 <211> 11
 <212> PRT
 <213> Artificial

<220>
 <223> Clone 3

<400> 24

Asp	Thr	Tyr	Phe	Ser	His	Asn	Tyr	Asp	Pro	Trp
1				5					10	

<210> 25
 <211> 11

SAP702PCT. ST25

<212> PRT
<213> Artificial

<220>
<223> Clone 4

<400> 25

Asp Thr Tyr Phe Gly His Arg Tyr Asp Pro Trp
1 5 10

<210> 26
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Clone 5

<400> 26

Asp Thr Tyr Phe Gly His Val Tyr Asp Pro Trp
1 5 10

<210> 27
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Clone 6

<400> 27

Asp Thr Tyr Phe Ala His Asn Tyr Asp Pro Trp
1 5 10

<210> 28
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Clone 7

<400> 28

Asp Thr Tyr Phe Gly His Leu Tyr Asp Pro Trp
1 5 10

<210> 29
<211> 11

SAP702PCT. ST25

<212> PRT
<213> Artificial

<220>
<223> Clone 8

<400> 29

Asp Thr Tyr Phe Gly His Asp Tyr Asp Pro Trp
1 5 10

<210> 30
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Clone 9

<400> 30

Asp Thr Tyr Phe Tyr His Asn Tyr Asp Pro Trp
1 5 10

<210> 31
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Clone 10

<400> 31

Asp Thr Tyr Phe Gly His Trp Tyr Asp Pro Trp
1 5 10